PERMIT #: _____

LOCATION OF WORK TO BE PERFORMED: _____

TOWN OF HILTON HEAD ISLAND – COMMUNITY DEVELOPMENT DEPARTMENT

WINDOW AND DOOR DP RATINGS PER - 2006 INTERNATIONAL RESIDENTIAL CODE

****This form is required for any construction that includes new or replacement window(s)/door(s)***

DESIGN PRESSURE VALUES LISTED IN TABLE ARE POUNDS / SQ FT (PSF)

ZONE 5 = ALL WINDOWS / DOORS THAT ARE 4 FT OR CLOSER TO A CORNER
ZONE 4 = ALL OTHER WINDOWS / DOORS
Enter number of windows and check the APPLICABLE boxes

WIND ZONE – *INLAND* **130 MPH (B EXPOSURE)**
BASIC WIND ZONE (MPH 3 SECOND GUST)

Mean Roof Height	ZONE (4)	# OF WINDOWS	# OF DOORS	# OF SKY LIGHTS	ZONE (5)	# OF WINDOWS	# OF DOORS	# OF SKY LIGHTS
□ 15’	□ DP 35				□ DP 45			
□ 20’	□ DP 35				□ DP 45			
□ 25’	□ DP 35				□ DP 45			
□ 30’	□ DP 35				□ DP 45			
□ 35’	□ DP 35				□ DP 45			
□ 40’	□ DP 40				□ DP 45			
□ 45’	□ DP 40				□ DP 50			
□ 50’	□ DP 40				□ DP 50			

WIND ZONE – OCEANFRONT **130 MPH (C EXPOSURE)**
BASIC WIND SPEED (MPH 3 SECOND GUST)

Mean Roof Height	ZONE (4)	# OF WINDOWS	# OF DOORS	# OF SKY LIGHTS	ZONE (5)	# OF WINDOWS	# OF DOORS	# OF SKY LIGHTS
□ 15’	□ DP 40				□ DP 50			
□ 20’	□ DP 45				□ DP 55			
□ 25’	□ DP 45				□ DP 55			
□ 30’	□ DP 50				□ DP 60			
□ 35’	□ DP 50				□ DP 60			
□ 40’	□ DP 50				□ DP 65			
□ 45’	□ DP 55				□ DP 65			
□ 50’	□ DP 55				□ DP 65			

Type of Protection for Openings	
□ **High impact glass**	
□ **Approved shutters**	
Type of shutters/other	

U Value: _____ **Solar Heat Gain Co-efficient:** _____

See next page for details

PRINT NAME _____ SIGNATURE_____
DATE: _____

FOR SOUTH CAROLINA
PRESCRIPTIVE PATH FOR COMPLIANCE WITH THE 2006 IECC

	WINDOWS AND INSULATION							FOUNDTION TYPE			
Package	Window U-Factor	Skylight U-Factor	Window and Skylight SHGC	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value		Floor R-Value	Basement Wall R-Value	Slab R-Value And Depth	Crawl Space Wall R-Value
Climate Zone 3	0.65	0.65	0.40	R-30	R-13	R-5		R-19	R-0	R-0	R-5/13

NOTES:

This table applies to new construction as well as additions, alterations and replacement windows and is based upon the envelope performance requirements for Climate Zone 3, Table 402.1 in the 2006 IECC, and does not reflect any state-specific amendments to the IECC. This table applies to residential buildings, as defined in the IECC, with wood framing and/or mass walls. For steel-framed buildings, refer to Section 402.24 of the IECC.

Window refers to any translucent or transparent material (i.e., glazing) in exterior openings of buildings, including skylights, sliding glass doors and glass block, along with the accompanying sashes, frames, etc.

Window and skylight U-factor and SHGC values are maximum acceptable levels. An area-weighted average of fenestration products shall be permitted to satisfy the U-Factor and SHGC requirements. Window U-Factor and SHGC must be determined from a National Fenestration Rating Council (NFRC) label on the product or from a limited table of product default values in the IECC. Up to 15 square feet of glazed fenestration is permitted to be exempt from the U-factor and SHGC requirements.

The code requires that window be labeled in a manner to determine that they meet the IECC's air infiltration requirements; specifically, equal to or better than 0.30 cfm per square foot of window area (swinging doors below 0.50 cfm) as determined in accordance with the NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory.

Opaque exterior doors must meet the window U-Factor requirements. One exempt door is allowed.

Insulation R-values are minimum acceptable levels; R-19 shall be permitted to be compressed into a 2x6 cavity. R-Values for walls represent the sum of cavity insulation plus insulated sheathing. If any.

If structural sheathing covers 25% or less of the exterior, insulated sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25% of the exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.

Supply and return ducts shall be insulated to a minimum of R-8. ducts in floor trusses shall be insulated to a minimum of R-6.
EXCEPTION: Ducts or portions thereof located completely inside the thermal building envelope.

Where there are 2 different values for basement and crawl space insulation requirements, the first R-value shall only apply to unventilated crawl spaces; $-5 shall be added to the required slab edge R-Values for heated slabs; and floors over outside air must meet ceiling requirements.

The Code requires the HVAC system to be properly sized using a procedure like ACCA Manual J.